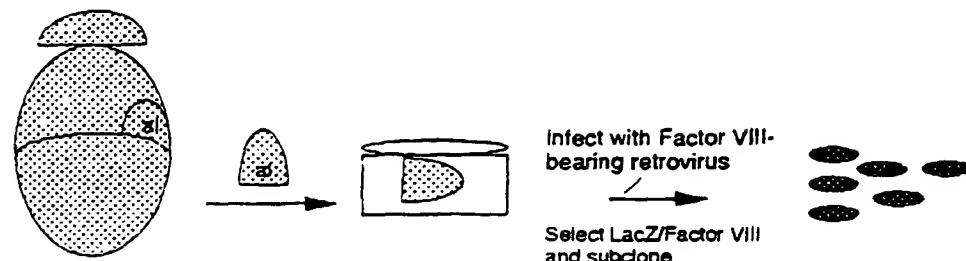


**FIG. 1**

1. Isolate LacZ-expressing allantois cells and infect with retrovirus carrying Factor VIII

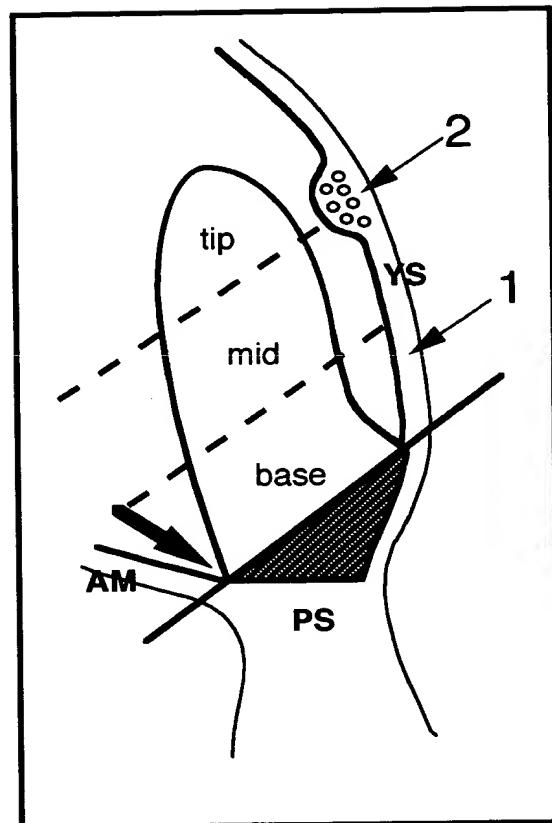


2. Inject LacZ-Factor VIII-expressing allantois cells into Factor VIII-defective embryos



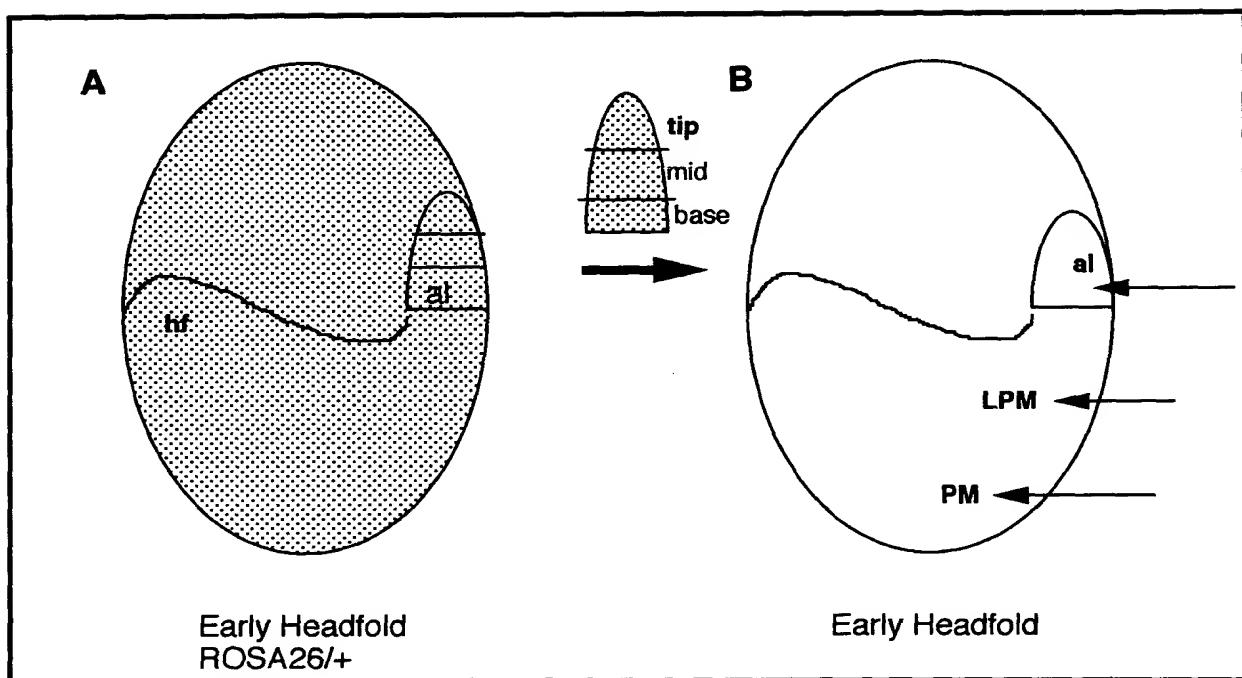
Factor VIII is recognized as "self" as immune system develops

**FIG. 2**

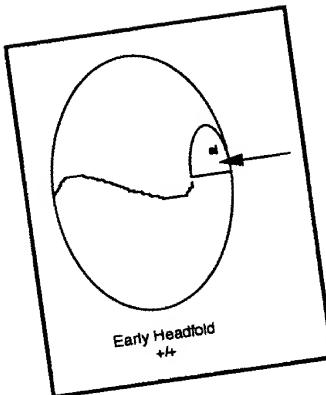


**FIG. 3**

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**FIG. 4**

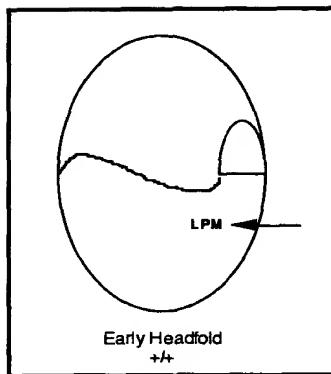


Summary of Grafts into the Base of the Allantois			
Region Grafted →	Base	Mid-Portion	Tip
Region Colonized ↓		+	0
Base	+		
Mid-Region			
Distal Third			
Vitelline Omphalomes	+	+	
Artery			
No. Chimeras with Unincorporated Donor Cells	1	2	0
Initial Stage of Host Embryos	Headfold	Headfold, 3-5	Headfold, 3
Final Number Somite Pairs	10-16	8-16	11-16
Total Number of Incorporated Transgenic Cells	5652	9715	2501
Number Chimeras (% Total Injected)	21 (60.0%)	16 (76.2%)	12 (85.7%)

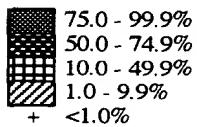
75.0 - 99.9%
   
 50.0 - 74.9%
   
 10.0 - 49.9%
   
 1.0 - 9.9%
   
 + <1.0%

**FIG. 5**

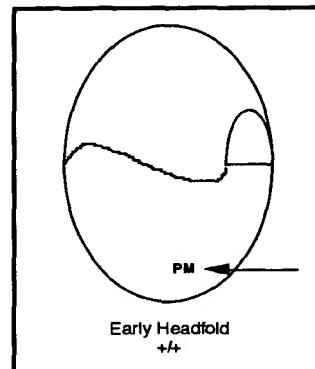
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Summary of Grafts into the Primitive Streak at the Level of Prospective Lateral Plate Mesoderm				
	Orthotopic: Prospective Lateral Plate Mesoderm	Heterotopic: Allantois to Prospective Lateral Plate Mesoderm		
Tissue Grafted→ Tissue Colonized ↓	LPM	Base	Mid-Portion	Tip
Lateral Plate Mesoderm	██████████	+		
Intermediate Mesoderm	██████████			
Somites	██████████			
Neural Tube	██████████			
Capillaries	██████████			
Endoderm of Future Coelem		██████████		
Surface Ectoderm	██████████	+		
Endothelium of Intersegmental Vessels	██████████		██████████	██████████
Endothelium of Aorta		██████████	██████████	██████████
Mesenchyme Adj to Dorsal Aorta		██████████	██████████	██████████
Umbilical Endothelium at All/Am Junction		+		
No. Chimeras with Unincorporated Donor Cells		0	5	2
Initial Stage of Host Embryo	Headfold, 2-3	Headfold	Headfold, 3,4	Headfold
Final No. Somite Pairs	11-15	10-12	10-16	11-16
Total Number of Incorporated Transgenic Cells	1925	2789	2769	995
Number Chimeras (% of Total Injected)	10 (52.6%)	4 (23.5%)	12 (54.4%)	5 (27.8%)



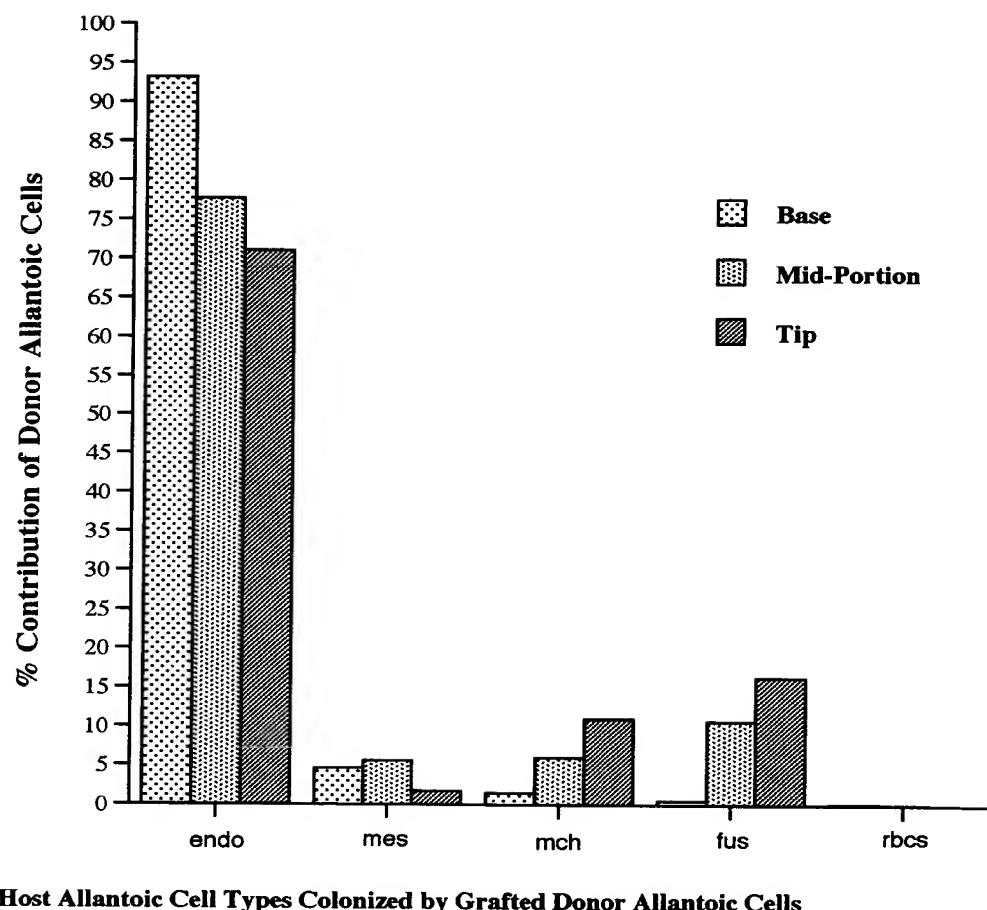
**FIG. 6**



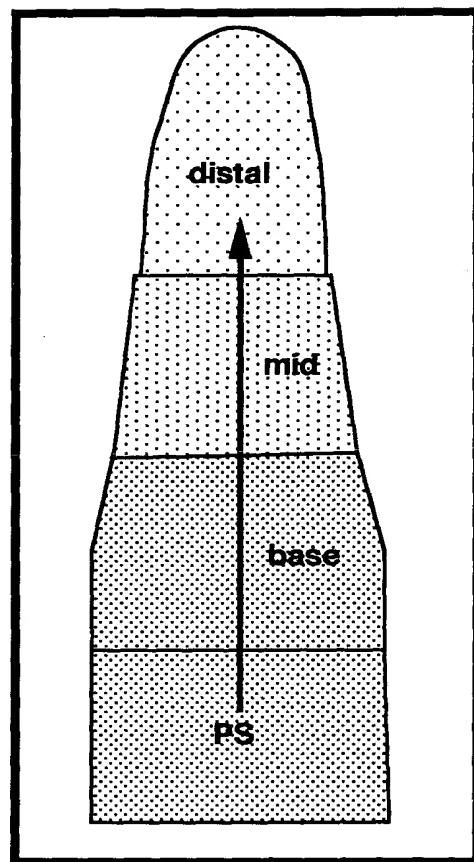
Summary of Transplants into the Primitive Streak at the Level of Prospective Paraxial Mesoderm				
	Orthotopic: Prospective Paraxial Mesoderm	Heterotopic: Allantois to Prospective Paraxial Mesoderm		
Tissue Grafted→ Tissue Colonized ↓	PM	Base	Mid-Portion	Tip
Somites	██████████			
Pre-Somitic Mesoderm	██████████			
Capillaries (in neurectoderm)	██████████			
Neural Tube	██████████			
Notochordal Plate	██████████			
Surface Ectoderm	+			
Endothelium of Intersegmental Vessels		██████████	██████████	
Endothelium of Dorsal Aorta		██████████	██████████	██████████
Mesenchyme Adj to Dorsal Aorta		██████████	██████████	██████████
No. Chimeras with Unincorporated Donor Cells	1	0	4	1
Initial Stage of Host Embryos	Headfold, 3-4	Headfold	Headfold, 1	Headfold
Final Number Somite Pairs	10-14	9-11	8-13	11-13
Total Number of Incorporated Transgenic Cells	1021	136	1060	340
Number Chimeras (% Total Injected)	7 (33.3%)	2 (10.5%)	6 (28.6%)	4 (30.8%)

75.0 - 99.9%  
  
 50.0 - 74.9%  
  
 10.0 - 49.9%  
  
 1.0 - 9.9%  
 + <1.0%

FIG. 7



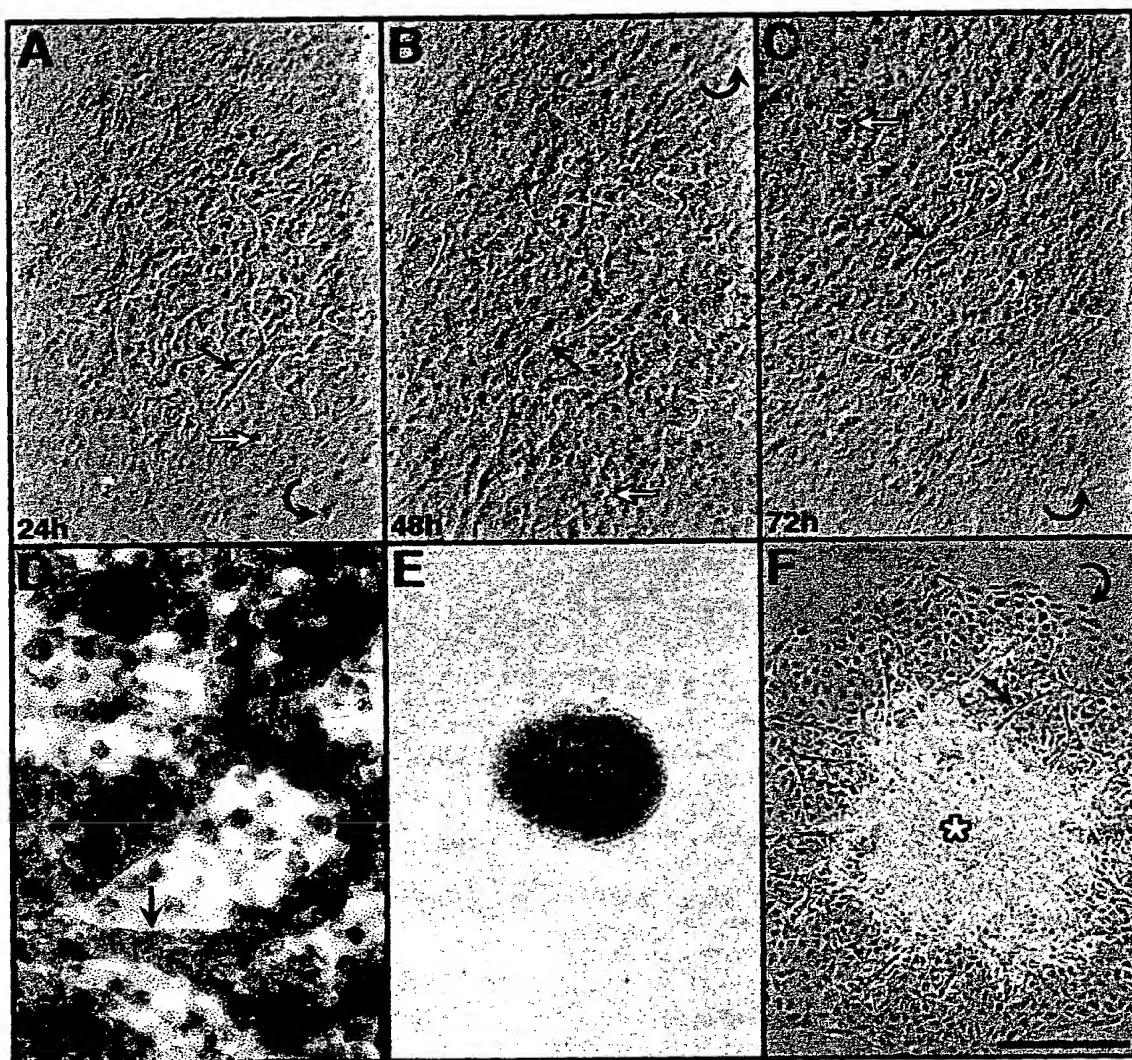
**FIG. 8**



**FIG. 9**

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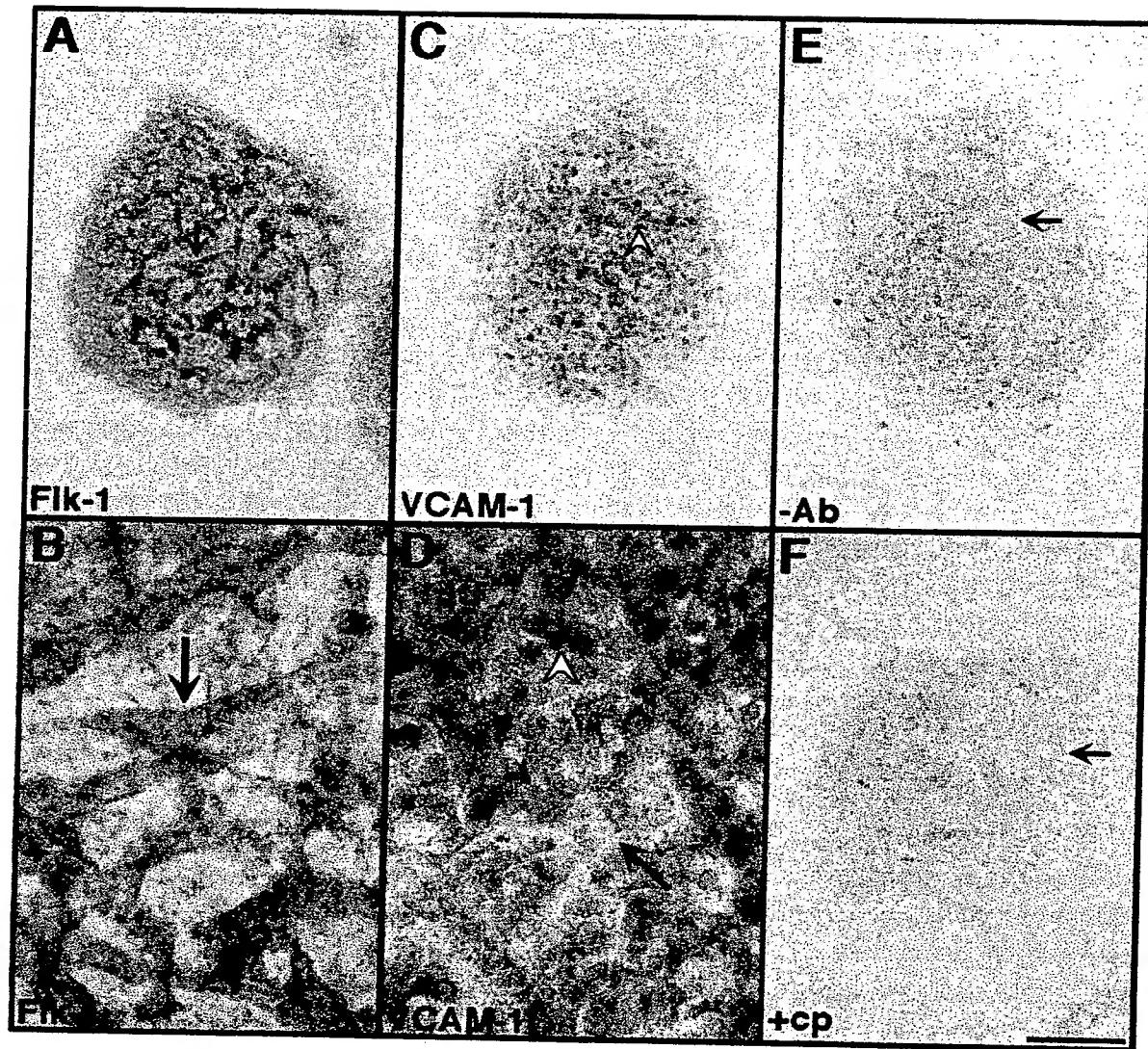
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**FIG. 10**

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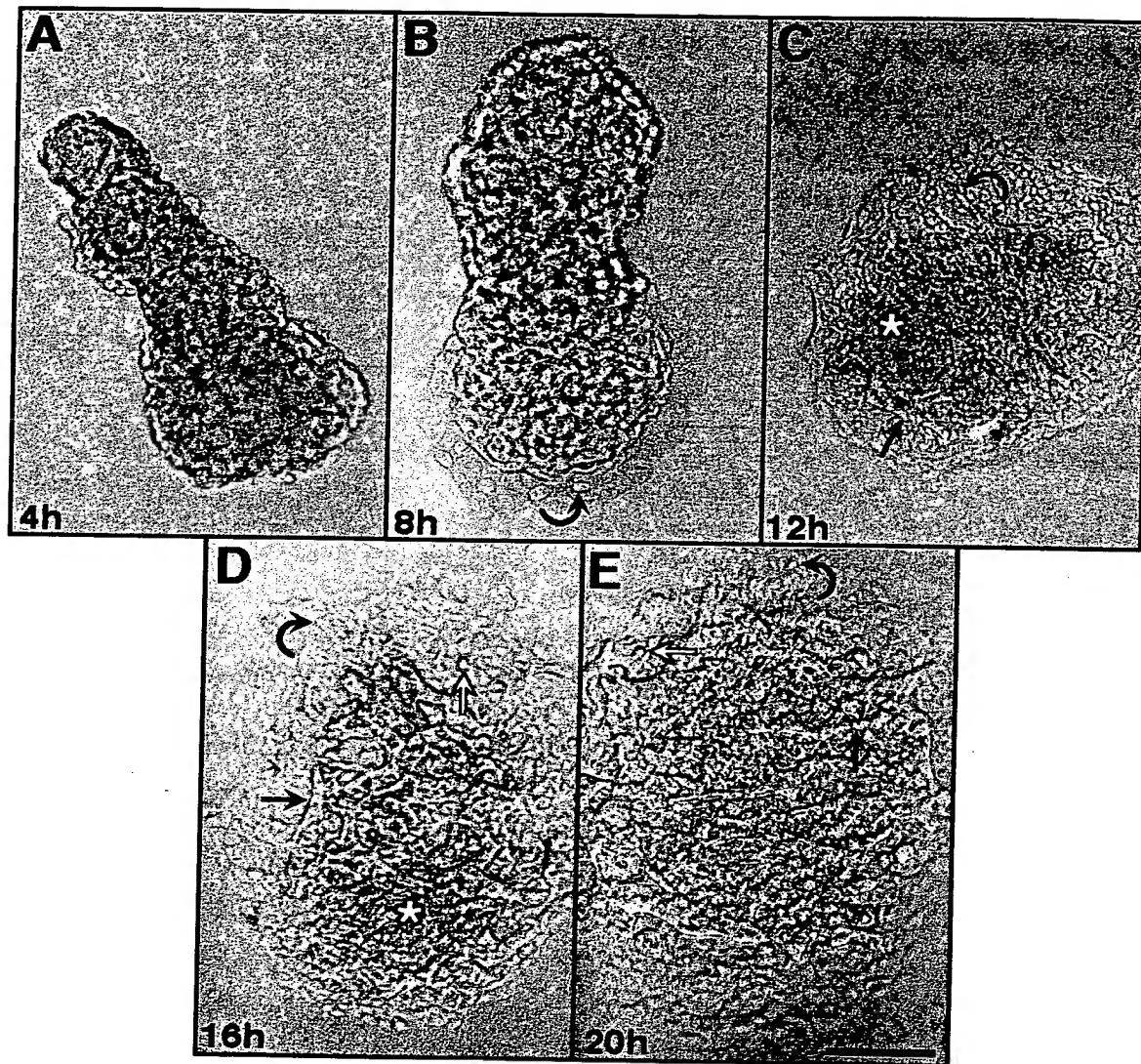
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**FIG. 11**

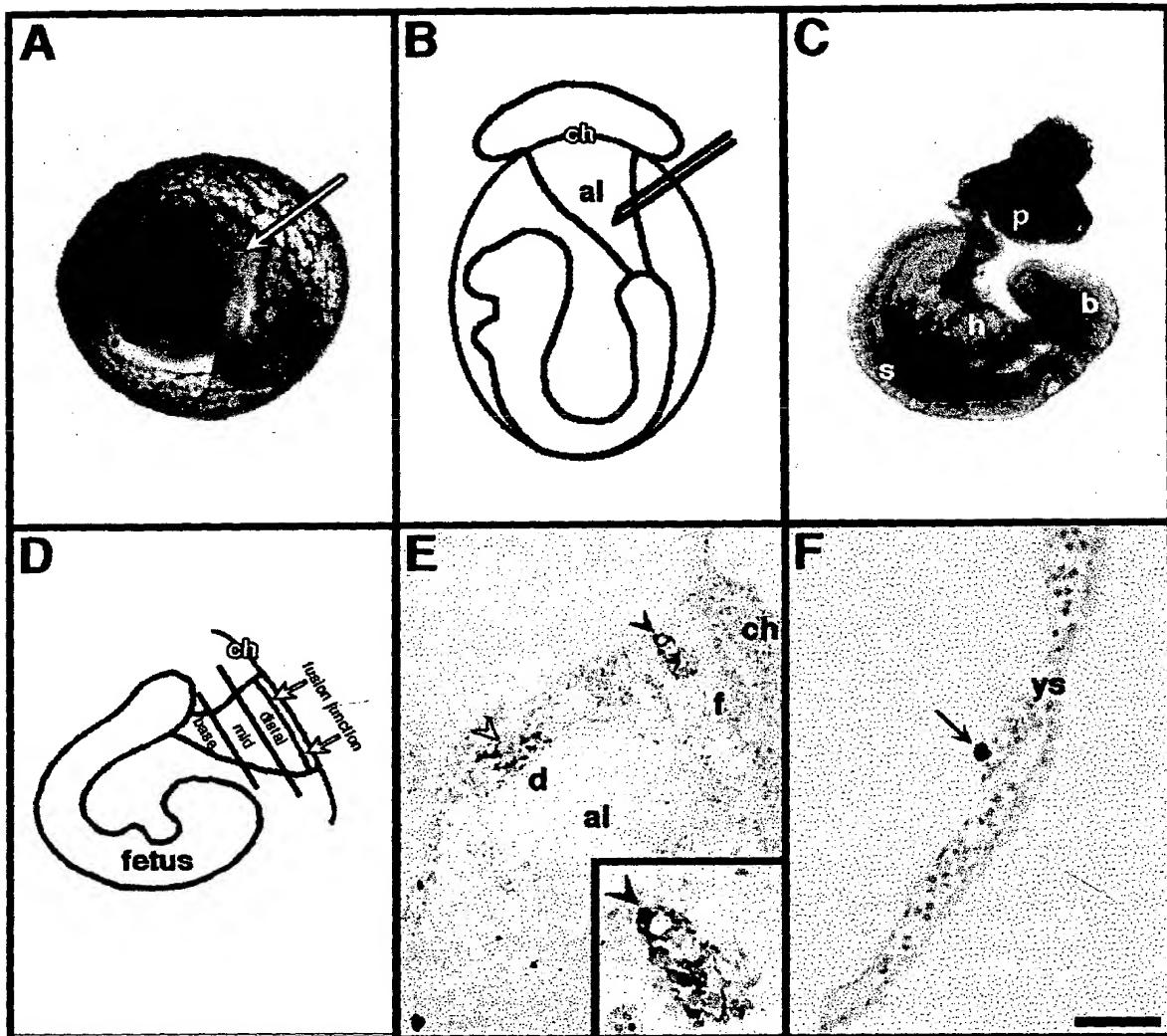
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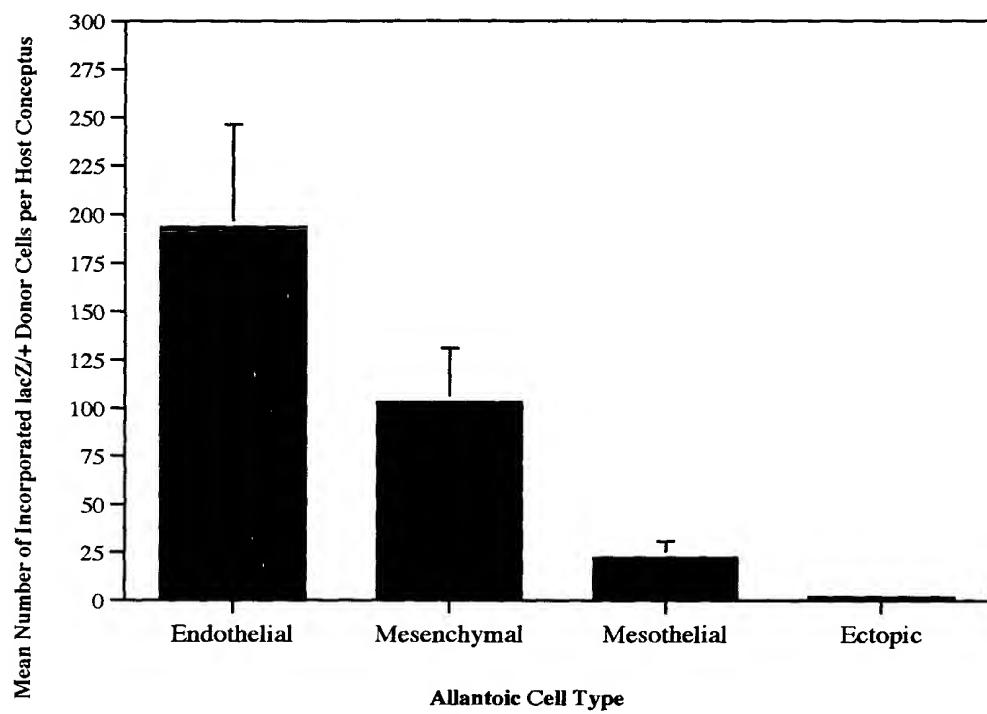


**FIG. 12**

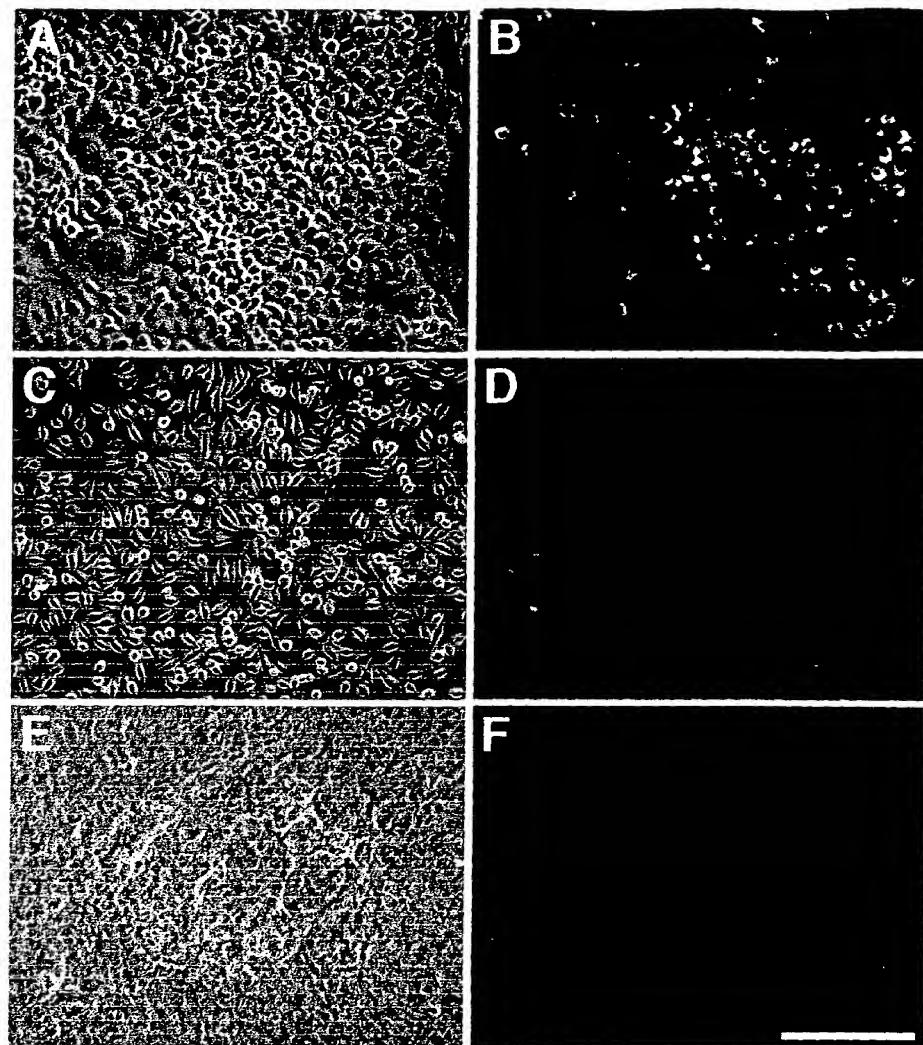
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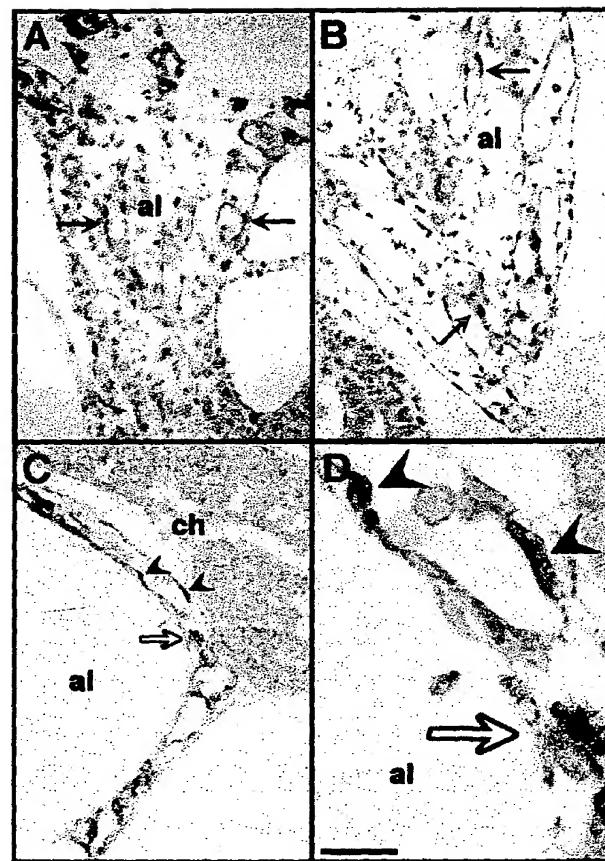
**FIG. 13**



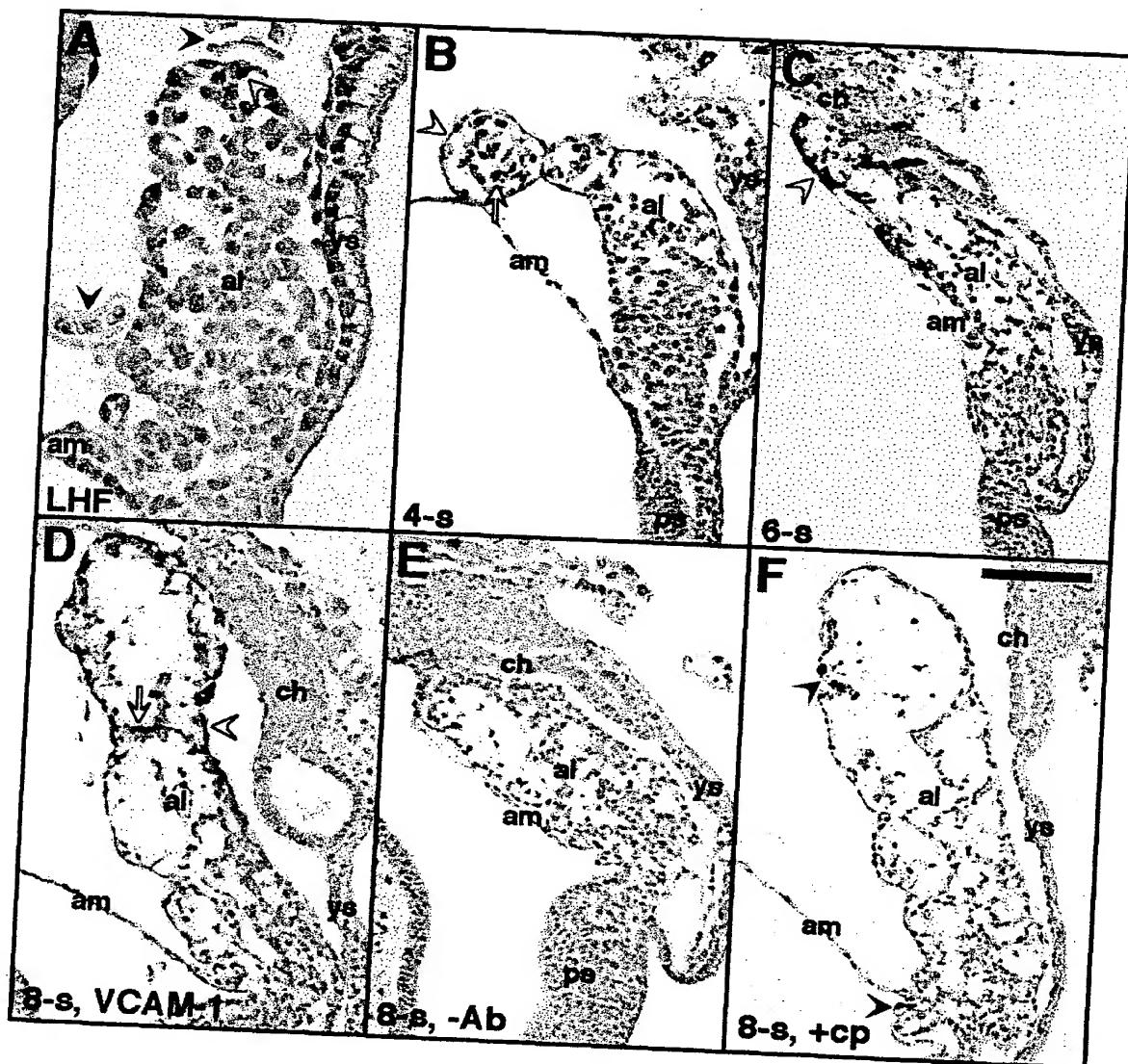
**FIG. 14**



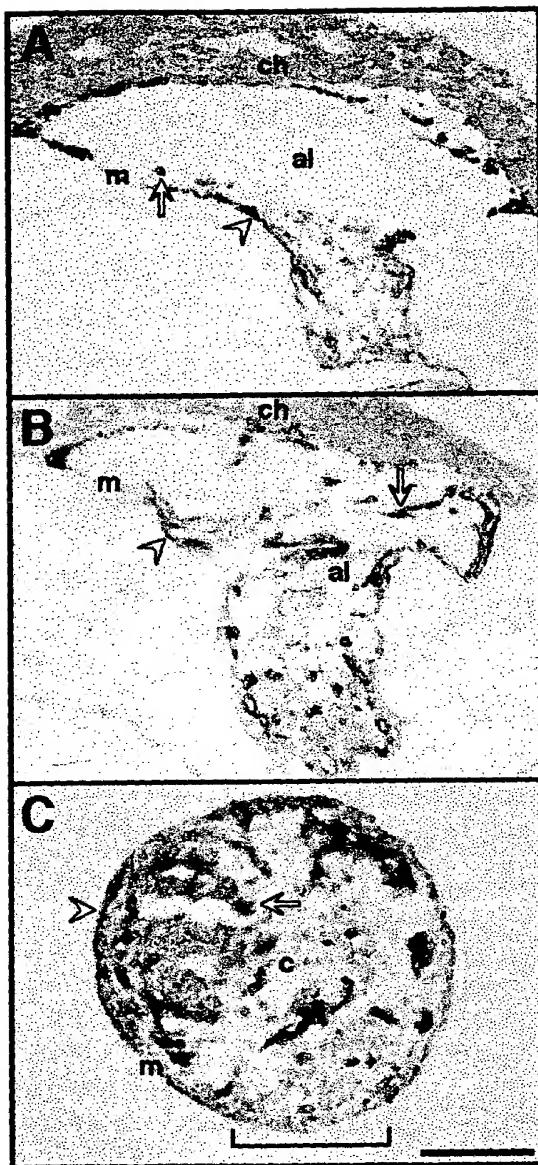
**FIG. 15**



**FIG. 16**



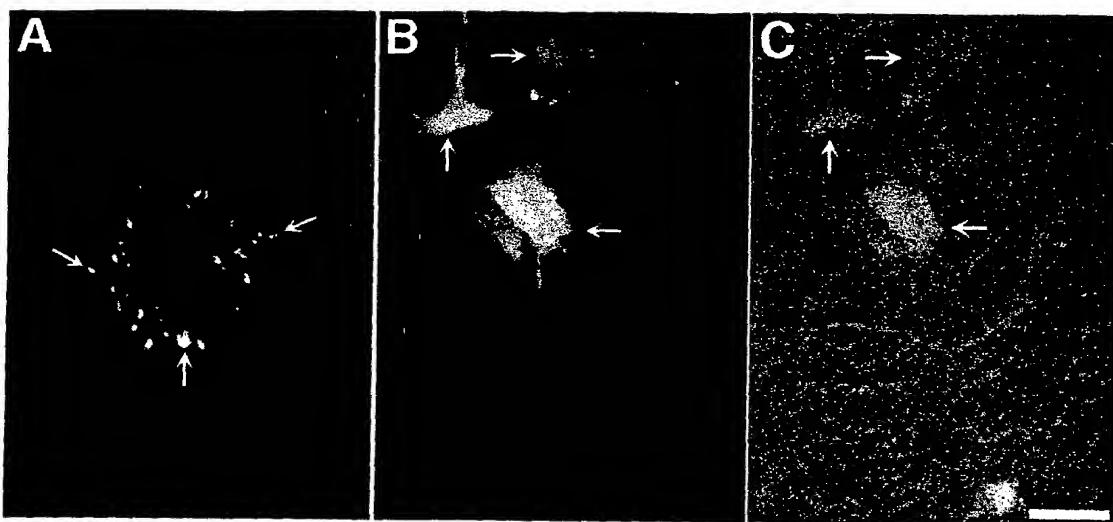
**FIG. 17**



**FIG. 18**

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**FIG. 19**